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piece 1, NC\_000913, slt\_trpR-, config: linear, direction: -, begin: 4630812, end: 4630674

The diagram illustrates a genetic circuit with the following components and features:

- Left Panel:** Shows a transcription start site (sd) indicated by a green box labeled "sd". Below it, a bracket indicates a gap of 2.4 bits between the sd and the first regulatory region.
- Middle Panel:** Shows a regulatory region labeled "sd-(8)-ir 4630750" with a gap of 2.4 bits. Below it, another bracket indicates a total length of 6.8 bits for the "sd-ir 4630750 slt\_trpR" construct.
- Right Panel:** Shows a complex regulatory region with multiple layers of control. It includes labels for "p35", "p10", "p35-(22)", "p35-p10", "p35", "p35-(26)", and "p35-p10".
- Legend:** A legend at the bottom right defines the colors and patterns used in the diagram: a red box for "sd", a green box for "sd-(8)", a blue box for "ir", and a purple box for "reg".

5' t c g c t a a a g a g t a c g a t a g c a t a t c a t a a a c c g t g c g g a t c a g t a c g a c g t c c c c a t t 3'

- ser - leu - lys - ser - thr - ile - ala - tyr - his - lys - arg - ala - asp - gln - - - - - - - - -

- ala - lys - glu - tyr - asp - ser - ile - ser -

#44#orf\_16 codons

Diagram illustrating two p10 codons with different bit counts:

- p10 4.5 bits**: Represented by a green vertical bar and a blue horizontal bar with red '+' symbols.
- p10 6.3 bits**: Represented by a green vertical bar and a blue horizontal bar with red '+' symbols.

..... } p35-(22)-p10 4630714 Gap 2.3 bits  
..... | p35-p10 4630714 total 6.3 bits

...  p35 3.5 bits

} p35-(26)-p10 4630709 Gap 3.7 bits  
p35-p10 4630709 total 6.2 bits